

Crystal Hexagon

Standard Version

by Arya Akhavan (August 2013)

Angles for R.I. = 1.610

91 + 18 girdles = 109 facets

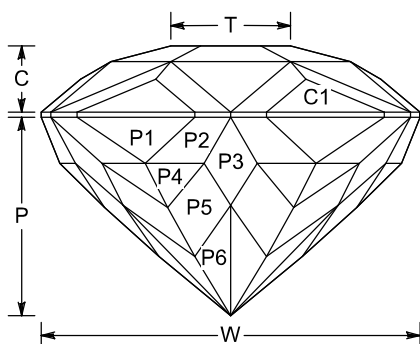
6-fold, mirror-image symmetry

96 index

L/W = 1.096 T/W = 0.316 U/W = 0.274

P/W = 0.523 C/W = 0.175

Vol./W³ = 0.264



PREFORM

X1	40.97°	08-24-40-56-72-88	Cut to centerpoint.
X2	39.35°	04-12-20-28-36-44-52-60-68-76-84-92	Meet at preform culet.
G1	90.00°	08-24-40-56-72-88	Set stone size.
G2	90.00°	04-12-20-28-36-44-52-60-68-76-84-92	Level girdle.

PAVILION

G1	90.00°	08-24-40-56-72-88	Retain from preform.
G2	90.00°	04-12-20-28-36-44-52-60-68-76-84-92	Retain from preform.
P1	68.22°	08-24-40-56-72-88	Set girdle level.
P2	52.42°	04-12-20-28-36-44-52-60-68-76-84-92	Level girdle.
P3	46.43°	96-16-32-48-64-80	Meet G2, P2
P4	45.43°	04-12-20-28-36-44-52-60-68-76-84-92	Meet P1, P2
P5	43.43°	03-13-19-29-35-45-51-61-67-77-83-93	Meet P2, P3, P4
P6	41.90°	02-14-18-30-34-46-50-62-66-78-82-94	Meet P3, P5

CROWN

C1	40.03°	08-24-40-56-72-88	Set girdle width.
C2	30.71°	04-12-20-28-36-44-52-60-68-76-84-92	Level girdle.
C3	25.87°	96-16-32-48-64-80	Meet G2, C2
C4	17.00°	96-16-32-48-64-80	Meet C2, C3
T	0.00°	Table	Cut such that T = length of C3-C4 edge

This design is a modification of my "Crystal Hexagon" design, but re-written for shallower material. This particular version definitely does NOT have the Portuguese effect, but it still looks amazing in paler materials.

Works in materials from quartz to rutile (RI = 1.54 - 2.62) with no changes, but looks best in icy topaz.

Suggested size = 10-30 mm

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